

# **RF Radiation Compliance Measurements WDVI Rochester, NY – Auxiliary Antenna Facility ID# 37546**

These measurements were made to comply with Special Conditions 4 and 5 of Construction permit BXPB-20090824ABH.

## **Facilities:**

WDVI is authorized by Construction Permit BXPB-20090824ABH for an ERP of 1.35KW (H & V) and utilizes a two bay half wave spaced ERI SHPX-2AE-HW-SP antenna. The antenna is side mounted on a tower structure attached to a steel platform atop a high rise building with its center of radiation located at 7.6 meters above the main roof level. Access to the roof is restricted to the general public by locked doors at the top of each stairwell. The 21<sup>st</sup> floor immediately below the roof is a mechanical room and is also restricted from public access. All roof access is strictly controlled by building security. Appropriate cautionary signs are posted at the roof entrances and the roof is designated a controlled access area.

## **Measurements:**

On May 14, 2012 while operating into the antenna at authorized power, measurements were made in all generally accessible areas in the upper floors of the building and within the 21st floor mechanical room immediately below the main roof, and on the main roof level where the antenna platform is located, in accordance with guidelines provided in OET Bulletin 65 Edition 97-01 with regard to General Population / Uncontrolled Exposure and Occupational / Controlled Exposure limits. A NARDA 8718B EM Survey meter utilizing a B8742D Shaped E Field Probe was used to make the measurements. The B8742D is a shaped probe with usable response from 300 kHz – 3 GHz providing a reading of the electric field component in percentage of the plane wave equivalent power density corresponding to the 1997 FCC General Population/Public Standard. Measurements were made using the “Max Hold” function of the NARDA 8718B meter while slowly walking a survey grid around the site sweeping the meter probe up and down in an oscillatory fashion covering as much volume of space as practical. Spatial averaging was not needed or utilized.

## **General Population / Uncontrolled Exposure:**

In none of the accessible areas within the building did the RF exposure levels exceed the 1997 FCC General Population / Uncontrolled Exposure limit. The maximum electric field observed within the building itself is in the 21<sup>st</sup> floor mechanical room and is less than 5% of the 1997 FCC General Population / Uncontrolled Exposure limit. The maximum electric field observed on the main roof is 77% of the 1997 FCC General Population / Uncontrolled Exposure limit. Thus, WDWI complies with OET Bulletin 65 Edition 97-01 with regard to the General Population / Uncontrolled Exposure at all accessible points within the building and on the main building roof.

## **Occupational / Controlled Exposure:**

Levels on the steel platform exceed the Occupational / Controlled Exposure limit in some areas. Appropriate warning signs are posted on the ladder leading to the platform marking the area as hazardous. The licensee will not operate, or will cease operating from this antenna whenever the platform is accessed, and along with other users of the site will reduce power or cease operating as necessary to protect workers from RF exposure in excess of FCC guidelines in all other areas of the site.